#### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### **Listing of Claims:**

1. (Currently Amended) A compound of the formula

$$\begin{array}{c|c}
(R^1)_x \\
N & Y - Z - R^2
\end{array}$$

wherein:

x is from 0 to 2;

R<sup>1</sup> is selected from the group consisting of hydroxy, C<sub>1</sub> to C<sub>9</sub> alkoxy (optionally substituted by halo), C<sub>1</sub> to C<sub>9</sub> cycloalkylalkoxy (wherein the cycloalkyl group is optionally substituted by C<sub>1</sub> to C<sub>4</sub> alkyl or halo, and the alkoxy group is optionally substituted by halo), arylalkoxy (wherein the aryl group is optionally substituted by C<sub>1</sub> to C<sub>4</sub> alkyl, C<sub>1</sub> to C<sub>3</sub> alkoxy or halo, and the alkoxy group is optionally substituted by halo) and C<sub>1</sub> to C<sub>9</sub> alkyl amino (wherein the alkyl group is optionally substituted by halo)

 $R^2$  is selected from the group consisting of H, alkyl, aryl, arylalkyl, cycloalkyl and cycloalkylalkyl, wherein alkyl moieties are optionally substituted by halo, and aryl groups are optionally substituted by  $C_1$  to  $C_4$  alkyl,  $C_1$  to  $C_4$  alkoxy and halo,

 $R^3$  is absent when -Y-Z- $R^2$  is attached to N, or  $R^3$  is selected from the group consisting of H,  $C_1$  to  $C_7$  alkyl and benzyl, when

-Y-Z-R<sup>2</sup> is not attached to N;

Y is  $C_2$  to  $C_{10}$  alkylene, in which one non-terminal carbon atom may be replaced by O; and

Z is

wherein  $R^5$ ,  $R^6$  and  $R^7$  are independently H, aryl ( $C_1$  to  $C_3$ ) alkyl or cycloalkyl ( $C_1$  to  $C_3$ ) alkyl optionally substituted by halo, and Q is H or methyl, or Q is linked to  $R^5$  or  $R^7$  to form a five-membered ring or Q is linked to  $R^2$  to form a six-membered ring, provided that when Z is

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at least one of  $R^5$  and  $R^7$  is aryl( $C_1$  to  $C_3$ )alkyl or cycloalkyl( $C_1$  to  $C_3$ )alkyl, optionally substituted by halo;

or a pharmaceutically acceptable salt thereof.

- 2. (Cancelled)
- 3. (Withdrawn) The compound of claim 1 or 30 wherein R<sup>2</sup> is selected from phenyl, halophenyl, benzyl, halobenzyl, phenylethyl, halophenylethyl, phenylpropyl, halophenylpropyl, phenylbutyl, halophenylbutyl, tolyl, methoxybenzyl, trifluoromethylbenzyl, halo-methoxybenzyl, phenylbenzyl, adamantanemethyl, adamantaneethyl, adamantanepropyl, cyclohexanemethyl, cyclohexaneethyl, and naphthyl.
  - 4. (Withdrawn) The compound of claim 1 or 30 wherein x is 0.
- 5. (Withdrawn) The compound of claim 1 or 30 wherein x is 1 or 2, and R<sup>1</sup> is selected from hydroxy, C<sub>1</sub> to C<sub>9</sub> alkoxy (optionally substituted by halo), C<sub>1</sub> to C<sub>9</sub> cycloalkylalkoxy (wherein the cycloalkyl group is optionally substituted by C<sub>1</sub> to C<sub>4</sub> alkyl or halo, and the alkoxy group is optionally substituted by halo), arylalkoxy (wherein the aryl

group is optionally substituted by  $C_1$  to  $C_4$  alkyl,  $C_1$  to  $C_3$  alkoxy or halo, and the alkoxy group is optionally substituted by halo) and  $C_1$  to  $C_9$  alkylamino wherein the alkyl group is optionally substituted by halo.

## 6.-7. (Cancelled)

- 8. (Withdrawn) The compound of claim 1, wherein Y is propylene, butylene, pentylene, hexylene, octylene or nonylene.
  - 9.-12. (Cancelled)
- 13. (Withdrawn) A pharmaceutical composition comprising a therapeutically effective amount of the compound of claim 1, and a physiologically acceptable diluent or carrier.
  - 14. (Withdrawn) A method of making a compound of the formula

$$A \xrightarrow{X} B \\ Y - N \xrightarrow{R^5} R^2$$

wherein A, B, x, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>5</sup>, X and Y are as recited in claim 1, said method comprising the step of reacting a compound of the formula R<sup>2</sup>SO<sub>2</sub>C1 with a compound of the formula

$$A \xrightarrow{X} B \\ Y - N \\ H$$

wherein  $R^{3A}$  is  $C_1$  to  $C_7$  hydrocarbyl or a protecting group.

## 15. (Withdrawn) A method of making a compound of the formula

wherein A, B, x, R<sup>1</sup>, R<sup>2</sup>, X and Y are as recited in claim 1, said method comprising the step of reacting a compound of the formula

$$A \xrightarrow{X} B$$

with a compound of the formula Cl-Y-NH-SO<sub>2</sub>-R<sup>2</sup>.

16. (Withdrawn) A method of making a compound of the formula

$$\begin{array}{c|c}
X & (R^1)_x \\
B & R^5 & R^2 \\
Y - N & N \\
R^3 & O & O
\end{array}$$

wherein A, B, x, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>5</sup>, X and Y are as recited in claim 1, said method comprising the step of reacting a compound of the formula

(wherein  $R^{3A}$  is  $C_1$  to  $C_7$  hydrocarbyl or a protecting group and Pr is a protecting group) with a compound of the formula  $R^2$ Br, and reacting the product with  $R^5$ Br when  $R^5$  is not hydrogen.

### 17. (Withdrawn) A method of making a compound of the formula

$$\begin{array}{c|c}
X & (R^1)_x \\
B & R^6 \\
Y - N & N \\
R^3 & O O & R^2
\end{array}$$

wherein A, B, x,  $R^1$ ,  $R^2$ ,  $R^3$ , X and Y are as recited in claim 1, said method comprising the step of reacting a compound of the formula

$$A \xrightarrow{X}_{B}^{(R^1)_x}$$

$$Y - OH$$

(wherein  $R^{3A}$  is  $C_1$  to  $C_7$  hydrocarbyl or a protecting group) with a compound of the formula  $R^2$ -NH-S0<sub>2</sub>-NH-Pr, wherein Pr is a protecting group, and reacting the product with  $R^6$ Br when  $R^6$  is not hydrogen.

#### 18. (Withdrawn) A method of making a compound of the formula

wherein A, B, x, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>5</sup>, R<sup>6</sup>, X and Y are as recited in claim 1, said method comprising the step of reacting a compound of the formula

$$A \xrightarrow{X \times B} B \times Y - NHR^{5}$$

(wherein  $R^{3A}$  is  $C_1$  to  $C_7$  hydrocarbyl or a protecting group) with a compound of the formula  $R^2R^6NH$  and sulfamide.

## 19. (Withdrawn) A method of making a compound of the formula

$$A \xrightarrow{X} B \xrightarrow{Q} Q \xrightarrow{Q} R^2$$

$$\downarrow R^3 \qquad \qquad \downarrow R^6$$

wherein A, B,  $R^1$ ,  $R^2$ ,  $R^3$ ,  $R^6$  and X are as recited in claim 1 and  $Y^2$  is a bond or  $C_1$  to  $C_8$  alkylene, said method comprising the step of reacting a compound of the formula

(wherein  $R^{3A}$  is  $C_1$  to  $C_7$  hydrocarbyl or a protecting group) with a compound of the formula

wherein Pr is a protecting group, reducing the reaction product, and (when  $R^6$  is not hydrogen) reacting the reduced product with  $R^6Br$ .

### 20. (Withdrawn) A method of making a compound of the formula

$$\begin{array}{c|c}
X & (R^1)_x \\
& & NQ \\
& & NQ \\
& & N & R^7 \\
& & & R^2
\end{array}$$

wherein A, B, x, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>5</sup>, R<sup>7</sup>, Q, X and Y are as recited in claim 1, said method comprising the step of reacting a compound of the formula

$$A \xrightarrow{X} B$$

$$Y = NHR^{5}$$

with a compound of the formula

wherein  $Q^1$ ,  $R^{2A}$ ,  $R^{3A}$ , and  $R^{7A}$  are any of the groups defined for Q,  $R^2$ ,  $R^3$ , and  $R^7$ , respectively, or protecting groups.

#### 21. (Withdrawn) A method of making a compound of the formula

wherein A, B, x,  $R^1$ ,  $R^2$ , and X are as recited in claim 1 and  $Y^1$  is a  $C_1$  to  $C_9$  alkylene group, said method comprising the step of reacting a compound of the formula

(wherein Pr<sup>1</sup> and Pr<sup>2</sup> are protecting groups) with a compound of the formula

22. (Withdrawn) A method of making a compound of the formula

$$A \xrightarrow{X}_{B}^{(R^1)_x}$$

$$Y - N - S \xrightarrow{R^2}$$

wherein A, B, x, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>5</sup>, X and Y are as recited in claim 1, said method comprising the step of reacting a compound of the formula

(wherein R<sup>3A</sup> is C<sub>1</sub> to C<sub>7</sub> hydrocarbyl or a protecting group) with a compound of the formula

$$R^2-S$$
 $O-Me$ 

23. (Withdrawn) A method of making a compound of the formula

wherein A, B, x,  $R^1$ ,  $R^2$ , and X are as recited in claim 1 and  $Y^1$  is a  $C_1$  to  $C_9$  alkylene group, said method comprising the step of reacting a compound of the formula

$$A \xrightarrow{X} B$$

with a compound of the formula R<sup>2</sup>-SO<sub>2</sub>-Y'-CHO.

24. (Withdrawn) A method of making a compound of the formula

$$A \xrightarrow{X} B \xrightarrow{NQ} NQ$$

$$Y \xrightarrow{N} NQ$$

$$Y \xrightarrow{N} R^{5} R^{2}$$

wherein A, B, x, R<sup>1</sup>, R<sup>2</sup>, R<sup>5</sup>, R<sup>7</sup>, Q, X and Y are as recited in claim 1, said method comprising the step of reacting a compound of the formula

$$A \xrightarrow{X} B$$

with a compound of the formula

wherein V is  $C_1$  to  $C_9$  alkylene, and Q',  $R^{2A}$ ,  $R^{5A}$  and  $R^{7A}$  are any of the groups defined for Q,  $R^2$ ,  $R^5$  and  $R^7$ , respectively, or a protecting group.

## 25. (Withdrawn) A method of making a compound of the formula

$$A \xrightarrow{X} B \xrightarrow{NQ} NQ$$

$$Y \xrightarrow{N} NQ$$

$$Y \xrightarrow{N} R^{5} R^{2}$$

wherein A, B, x, R<sup>1</sup>, R<sup>2</sup>, R<sup>5</sup>, R<sup>7</sup>, Q, X and Y are as recited in claim 1, said method comprising the step of reacting a compound of the formula

with a compound of the formula

wherein L is a leaving group, and Q',  $R^{2A}$ ,  $R^{5A}$  and  $R^{7A}$  are any of the groups defined for Q,  $R^2$ ,  $R^5$  and  $R^7$ , respectively, or a protecting group.

26. (Withdrawn) A method of making a compound of the formula

wherein A, B, x,  $R^1$ ,  $R^2$ ,  $R^5$ , X and Y are as recited in claim 1, said method comprising the step of reacting a compound of the formula

$$A \xrightarrow{X} B B$$

with a compound of the formula

wherein V is  $C_1$  to  $C_9$  alkylene, and  $R^{2A}$  and  $R^{5A}$  are any of the groups recited for  $R^2$  and  $R^5$ , respectively, or a protecting group.

# 27. (Withdrawn) A method of making a compound of the formula

wherein A, B, x, R<sup>1</sup>, R<sup>2</sup>, R<sup>5</sup>, X and Y are as recited in claim 1 (provided that the moiety

constitutes a group falling within the definition of R<sup>6</sup>), said method comprising the step of reacting a compound of the formula

with a compound of the formula

$$\begin{array}{c|c}
R^{5A} & O & O \\
N & S & N \\
O & V & V & O
\end{array}$$

wherein V is  $C_1$  to  $C_9$  alkylene, and  $R^{2A}$  and  $R^{5A}$  are any of the groups recited for  $R^2$  and  $R^5$ , respectively, or a protecting group.

- 28. (Cancelled)
- (Withdrawn) A compound selected from the group consisting of:
   N-(2-pyrrolidin-1-yl-ethyl)-2-naphthalenesulfonamide,
   N-(3-pyrrolidin-1-yl-propyl)-2-naphthalenesulfonamide,
   N-(4-pyrrolidin-1-yl-butyl)-2-naphthalenesulfonamide,
   N-(2-pyrrolidin-1-yl-ethyl)-N-methyl-2-naphthalenesulfonamide, and
   N-(2-(1-methyl-pyrrolidin-2-yl-ethyl)-2-naphthalenesulfonamide.
- 30. (Withdrawn) A compound of the formula

$$\begin{array}{c|c}
(R^1)_x \\
& \\
N \\
R^3
\end{array}$$

wherein

x is from 0 to 2;

R<sup>1</sup> is selected from the group consisting of hydroxy, C<sub>1</sub> to C<sub>9</sub> alkoxy (optionally substituted by halo), C<sub>1</sub> to C<sub>9</sub> cycloalkylalkoxy (wherein the cycloalkyl group is optionally substituted by C<sub>1</sub> to C<sub>4</sub> alkyl or halo, and the alkoxy group is optionally substituted by halo), arylalkoxy (wherein the aryl group is optionally substituted by C<sub>1</sub> to C<sub>4</sub> alkyl, C<sub>1</sub> to C<sub>3</sub> alkoxy or halo, and the alkoxy group is optionally substituted by halo) and C<sub>1</sub> to C<sub>9</sub> alkyl amino (wherein the alkyl group is optionally substituted by halo)

 $R^2$  is selected from the group consisting of H, alkyl, aryl, arylalkyl, cycloalkyl and cycloalkylalkyl, wherein alkyl moieties are optionally substituted by halo, and aryl groups are optionally substituted by  $C_1$  to  $C_4$  alkyl,  $C_1$  to  $C_4$  alkoxy and halo,

 $R^3$  is absent when -Y-Z- $R^2$  is attached to N, or  $R^3$  is selected from the group consisting of H,  $C_1$  to  $C_7$  alkyl and benzyl, when

-Y-Z-R<sup>2</sup> is not attached to N;

Y is pentylene, hexylene, heptylene, octylene or nonylene; and Z is

wherein  $R^5$ ,  $R^6$  and  $R^7$  are independently H, aryl ( $C_1$  to  $C_3$ ) alkyl or cycloalkyl ( $C_1$  to  $C_3$ ) alkyl optionally substituted by halo, and Q is H or methyl, or Q is linked to  $R^5$  or  $R^7$  to form a five-membered ring or Q is linked to  $R^2$  to form a six-membered ring, provided that when Z is

at least one of  $R^5$  and  $R^7$  is  $aryl(C_1 \text{ to } C_3)$ alkyl or cycloalkyl( $C_1 \text{ to } C_3)$ alkyl, optionally substituted by halo;

or a pharmaceutically acceptable salt thereof.

31. (Withdrawn) A method of treating a patient in need of a sedative, a sleep regulator, an anticonvulsant, a regulator of hypothalamo-hypophyseal secretion, an antidepressant, a modulator of cerebral circulation, treatment of asthma or treatment of irritable bowel syndrome comprising administering to said patient a therapeutically effective amount of H<sub>3</sub> receptor ligand or a pharmaceutically acceptable salt thereof, said H<sub>3</sub> receptor ligand being a compound of the formula

$$\begin{array}{c|c}
(R^1)_x \\
\downarrow \\
N \\
R^3
\end{array}$$

$$Y - Z - R^2$$

wherein

x is from 0 to 2;

R<sup>1</sup> is selected from the group consisting of hydroxy, C<sub>1</sub> to C<sub>9</sub> alkoxy (optionally substituted by halo), C<sub>1</sub> to C<sub>9</sub> cycloalkylalkoxy (wherein the cycloalkyl group is optionally substituted by C<sub>1</sub> to C<sub>4</sub> alkyl or halo, and the alkoxy group is optionally substituted by halo), arylalkoxy (wherein the aryl group is optionally substituted by C<sub>1</sub> to C<sub>4</sub> alkyl, C<sub>1</sub> to C<sub>3</sub> alkoxy or halo, and the alkoxy group is optionally substituted by halo) and C<sub>1</sub> to C<sub>9</sub> alkyl amino (wherein the alkyl group is optionally substituted by halo)

 $R^2$  is selected from the group consisting of H, alkyl, aryl, arylalkyl, cycloalkyl and cycloalkylalkyl, wherein alkyl moieties are optionally substituted by halo, and aryl groups are optionally substituted by  $C_1$  to  $C_4$  alkyl,  $C_1$  to  $C_4$  alkoxy and halo,

 $R^3$  is absent when -Y-Z- $R^2$  is attached to N, or  $R^3$  is selected from the group consisting of H,  $C_1$  to  $C_7$  alkyl and benzyl, when

-Y-Z-R<sup>2</sup> is not attached to N;

Y is C<sub>2</sub> to C<sub>10</sub> alkylene, in which one non-terminal carbon atom may be replaced by O; and

Z is

wherein  $R^5$ ,  $R^6$  and  $R^7$  are independently H, aryl ( $C_1$  to  $C_3$ ) alkyl or cycloalkyl ( $C_1$  to  $C_3$ ) alkyl optionally substituted by halo, and Q is H or methyl, or Q is linked to  $R^5$  or  $R^7$  to form a five-membered ring or Q is linked to  $R^2$  to form a six-membered ring, provided that when Z is

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at least one of  $R^5$  and  $R^7$  is aryl( $C_1$  to  $C_3$ )alkyl or cycloalkyl( $C_1$  to  $C_3$ )alkyl, optionally substituted by halo;

or a pharmaceutically acceptable salt thereof.

- 32. (Withdrawn) The method of claim 31, wherein R<sup>2</sup> is selected from phenyl, halophenyl, benzyl, halobenzyl, phenylethyl, halophenylethyl, phenylpropyl, halophenylpropyl, phenylbutyl, halophenylbutyl, tolyl, methoxybenzyl, trifluoromethylbenzyl, halo-methoxybenzyl, phenylbenzyl, adamantanemethyl, adamantaneethyl, adamantanepropyl, cyclohexanemethyl, cyclohexaneethyl, and naphthyl.
  - 33. (Withdrawn) The method of claim 31, wherein x is 0.
- 34. (Withdrawn) The method of claim 31, wherein x is 1 or 2, and  $R^1$  is selected from hydroxy,  $C_1$  to  $C_9$  alkoxy (optionally substituted by halo),  $C_1$  to  $C_9$  cycloalkylalkoxy (wherein the cycloalkyl group is optionally substituted by  $C_1$  to  $C_4$  alkyl or halo, and the alkoxy group is optionally substituted by halo), arylalkoxy (wherein the aryl group is optionally substituted by  $C_1$  to  $C_4$  alkyl,  $C_1$  to  $C_3$  alkoxy or halo, and the alkoxy group is optionally substituted by halo) and  $C_1$  to  $C_9$  alkylamino wherein the alkyl group is optionally substituted by halo.
- 35. (Withdrawn) The method of claim 31, wherein Y is propylene, butylene, pentylene, hexylene, heptylene, octylene or nonylene.